

ZAYTSEV, V. Ya.; VANYUKOV, A.V.; BYSTROV, V.P.

The wetting of a solid charge mixture with liquid sulfides
and the effect of this factor on certain pyrometallurgical
processes. TSvet. met. 38 no. 12:47-51 D '65 (MIRA 19:1)

VANYUKOV, A.V.; TIKHONOV, S.S.; ZAYTSEV, V.Ya.

Studying the distribution of tin and lead between the products
of smelting. TSvet.met. 38 no.10:29-32 0 '65. (MIRA 18:12)

BYSTROV, V.P.; VANYUKOV, A.V.; ZAYTSEV, V. Ya.

Density and molar volume of copper and copper-lead matte.

Izv. vys. ucheb. zav.; tsvet. met. 7 no. 4:60-64 '64

(MIRA 19:1)

1. Moskovskiy institut stali i splavov, kafedra metallurgii i fizicheskoy khimii tsvetnykh metallov.

ZAYTSEV, V.Ya.; VANYUKOV, A.V.; TAKEZHANOV, S.T.; DONCHENKO, P.A.;
UNZHAKOV, M.S.

Selecting the optimal slag composition for shaft furnace
smelting of lead. TSvet. met. 38 no.6:23-28 Je '65.
(MIRA 18:10)

VANYUKOV, A.V.; ZAYTSEV, V.Ya.

Coalescence of finely dispersed matte particles in silicate melts.
Izv. vys. ucheb. zav.; tsvet. met. 5 no.5:39-47 '62. (MIRA 15:10)

1. Moskovskiy institut stali, kafedra metallurgii i fizicheskoy khimii
tsvetnykh metallov.
(Nonferrous metals--Metallurgy)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001964100017-6

ZAVITSKY, S. Yu., Leningrad; SHILPILIN, G. L., Leningrad.

[illegible]

VANYUKOV, A.V.; ZAYTSEV, V.Ya.

Studying densities, surface and interphase tensions in the system
copper matte - silicate melt. Izv. vys. ucheb. zav.; tsvet. met.
5 no.4:80-85 '62. (MIRA 16:5)

1. Moskovskiy institut stali, kafedra metallurgii i fizicheskoy khimii
tsvetnykh metallov.

(Liquid metals--Testing) (Surface chemistry)

L 4176-66 ENT(m)/EPP(a)/T DJ
 ACC NR: AP5024389 SOURCE CODE: UR/0286/65/000/015/0068/0068

INVENTOR: Skripchenko, Ye. S.; Naumenko, P. V.; Podol'skaya, M. E.; Orlova, K. I.;
 Balagin, I. S.; Sventokhovskaya, V. K.; Dyuzhev, I. F.; Borochenko, S. I.; Klinkovich,
 V. V.; Chamin, Y. N.; Kabantsev, M. A.; Tarlinskiy, D. I.; Zaytsev, V. V.; Tokar,
 I. K.; Znamenskaya, G. A.; Koritskiy, G. K.

ORG: none

TITLE: Method of obtaining liquid lubricant-coolant for rolling thin steel strips.
 Class 23, No. 173369

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 68

TOPIC TAGS: lubricant, coolant, liquid lubricant, rolling lubricant, cold rolling, strip rolling

ABSTRACT: This Author Certificate introduces a method for the preparation of a liquid coolant-lubricant based on methylenebisamide of synthetic fatty acid used, for instance, in rolling thin transformer or stainless-steel strips. To obtain a stable lubricant which would make it possible to roll the strips to a required thickness, an alkylsulfonate, alkylarylsulfonate, or hydroxyethyl amine of fatty acid containing five hydroxy radicals is added to the methylenebisamide of synthetic fatty acid. In a variant, the specified components are melted and then emulsified in water. [AS]

SUB CODE:FP,MM,IE/SUBM DATE:21Jun61/ ORIG REF: 000/ OTH REF: 000/ ATD PRESS: 1128
 Card 1/1 UDC: 621.822:621.7.016.3

ZAYTSEV, Vasil'y Vasil'yevich, Geroy Sotsialisticheskogo Truda;
DROKHANOVA, Ye.N., red.; YELAGIN, A.S., tekhn. red.

[If you have ~~succeeded~~ then help the others] Dobilaia sam -
pomogi drugomu. Moskva, Sovetskaya Rossiya, 1962. 53 p.
(MIRA 15:7)

1. Predsedatel' kolkhoza "Pobeda" Chuvashskoy ASSR (for
Zaytsev).

(Agriculture)

ZAYTSEV, Vasil'y Vasil'yevich; BORISOV, Vasil'y Aleksandrovich

[Collective farm economy on the upswing] Ekonomika kolkhoza na
pod'eme, Moskva, Gos. izd-vo sel'khoz, lit-ry, 1956. (MLRA 10:4)
(Chuvashia--Collective farms)

TOKAR', I.K.; CHAMIN, I.A.; Prinimali uchastiye: BOYKO, M.V.; CHUB, G.F.;
GAMERSHTEYN, V.A.; YASHNIKOV, D.I.; FILONOV, V.A.; TROSHCHENKO,
N.A.; SAMOYLOV, I.D.; ZAYTSEV, V.V.; KOLOMATSKIY, V.D.

Efficient lubrication for the rolling of thin sheet iron.
Metallurg 6 no.8:22-24 Ag '61. (MIRA 14:8)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Tokar', Chamin, Zaytsev, Kolomatskiy). 2. Zavod "Zaporozhstal'" (for Boyko, Chub, Gamershteyn, Yashnikov, Filonov, Troshchenko, Samoylov).
(Metalworking lubricants) (Sheet iron)

PASECHNYI, S.A.; CHAMIN, I.A.; ZAYTSEV, V.V.; TOKAR', I.K.

Use of technological dispersed lubricants in cold rolling.

Sbor. nauch. trud. Fiz.-tekh.inst. AN BSSR no.7:65-74 '61.

(MIRA 15:7)

(Rolling (Metalwork)) (Metalworking lubricants)

ZAYTSEV, V.V.

Theory of type II bursts of solar radio emission. Astron. zhur. 42
no.4:740-748 J1-Ag '65. (MIRA 18:8)

1. Radiofizicheskiy institut Gor'kovskogo gosudarstvennogo universiteta.

KAPLAN, S.A.; ZAYTSEV, V.V.; KISLYAKOV, A.G.; KOBRIN, M.M.; TSEYTLIN, N.M.

Fourth All-Union Conference on Radio Astronomy. Izv. vys. ucheb.
zav.; radiofiz. 6 no.4:861-869 '63. (MIRA 16:12)

L 00462-66

ACCESSION NR: AP5020673

the electron drift in the shock front. These calculations seem to be in satisfactory agreement with observed results. Orig. art. has: 26 formulas. 2

ASSOCIATION: Radiofizicheskiy institut Gor'kovskogo gos. universiteta (Radio-physics Institute, Gorkiy State University)

SUBMITTED: 09Oct64

ENCL: 00

SUB CODE: AA, GP

NO REF BOV: 011

OTHER: 004

Card 3/3

L 00162-66

ACCESSION NR: AP5020673

following set of expressions: radio emission flux

$$S_r = \Delta \Omega f \approx \frac{5(2\pi)^{3/2}}{12} \left(\frac{m_e}{2m_i} \right)^{3/2} \left(\frac{V_{Te}}{V_0} \right)^{-3} \frac{e^2 V_{Te}^2 \omega_L N}{c^3} L e^{-u} \ln \frac{2\psi}{a_{08}(0)},$$

mean plasma density at the shock front

$$N \approx 8N_0 M^2 / [8M^2 - (\sqrt{1+8M^2} - 1)^2 + 4],$$

maximum drift velocity

$$V_0 \approx \frac{1.55 H_0 \omega_L}{4\pi e N_0} \frac{(M^2 - 1)^{1/2}}{M^2}, \quad M < 2,$$

and the Landau damping

$$L \approx 4v_A / \omega_{Hi} (M^2 - 1)^{1/2},$$

$$\omega_{Hi} = eH^* / mc, \quad H^* \approx H_0 / 2(\sqrt{1+8M^2} - 1)^{-1}, \quad M < 2.$$

Numerical results are obtained for $v = 10^8$ cm/sec, $N_0 = 5 \times 10^7$ /cc and $H_0 = 1.5$ oersteds. The radio emission intensity at the first and second harmonics is calculated. It is shown that the two harmonics are related by

$$S_2 \approx \frac{e^2 V_{Te} V_0^2}{c^3} S_1 \approx 10^{-3} S_1.$$

The splitting in the spectra of the harmonics is shown to depend on the nature of

Card 2/3

L 00462-66 FBD/ENT(1) GW/WS-4

ACCESSION IN: AF9020673

UR/0033/65/042/004/0740/0748
523.164.32

AUTHOR: Kaytsev, V. V.

TITLE: Theory of type II bursts of solar radio emission

SOURCE: Astronomicheskii zhurnal, v. 42, no. 4, 1965, 740-748

TOPIC TAGS: solar flare, radio emission, shock wave, plasma, plasma frequency, magnetic field, electron density, kinetic theory

ABSTRACT: The phenomenon of type II bursts is explained by the radio emission theory from shock waves propagating in the solar corona. The following assumptions are made concerning the gyration frequency, burst speed, and shock velocity

$$\omega_{ce}/\omega_c \ll 1, \quad V_s \ll c, \quad v \ll (m_e/m_i)^{1/2} c,$$

The analysis is made in the framework of kinetic theory for electron-Langmuir wave propagation in a rarefied plasma. For a Maxwellian electron density distribution, the steady state plasma wave energy is calculated to be

$$E \approx \frac{1}{8\pi} \frac{(2\pi)^{1/2}}{\gamma^3} \left(\frac{m_e}{2m_i} \right)^{1/2} \left(\frac{V_{Te}}{V_0} \right)^{-3} N_e T \ln \frac{2\gamma}{\alpha_{ce}(0)}.$$

The radio emission intensity from the shock wave is estimated on the basis of the

Card 1/3

AP4015565

is forthcoming. Orig. art. has: no figures, 4 equations.

ASSOCIATION: none

SUBMITTED: 21Mar63

DATE ACQ: 12Mar64

ENCL: 00

SUB CODE: PH

NO REF SOV: 002

OTHER: 001

Card 2/2

AP4015565

S/0089/64/016/002/0149/0150

AUTHOR: Zaytsev, V. V.; Kaplan, S. A.

TITLE: Concerning the theory of the nonstationary multiple Compton scattering of gamma photons

SOURCE: Atomnaya energiya, v. 16, no. 2, 1964, 149-150

TOPIC TAGS: multiple Compton scattering, small angle, photon, gamma photon, Compton scattering

ABSTRACT: This paper presents a simple solution of the problem of the nonstationary scattering of gamma photons for small angles. The approximation

$$\cos \theta = 1 - \frac{\theta^2}{2}$$

has been used. The transfer equation is given for the photon flux for a plane unidirectional source of monochromatic gamma photons. A more detailed analysis for a point source in a homogeneous medium

Card 1/2

ZAYTSEV, V.V.; KAPLAN, S.A.

Theory of nonsteady multiple Compton scattering of gamma
quanta. Atom. energ. 16 no.2:149-150 F '64.
(MIRA 17:3)

Temperature Measurement in the Rotation Furnace

SOV/131-59-4-6/16

ASSOCIATION: Yamskiy dolomitnyy kombinat (Yamskiy Dolomite Kombinat)

Card 2/2

15(2)
AUTHOR:

Zaytsev, V. V.

SOV/131-59-4-6/16

TITLE:

Temperature Measurement in the Rotation Furnace (Izmereniye temperatury vo vrashchayushcheyseya pechi)

PERIODICAL:

Ogneupory, 1959, Nr 4, pp 165-167 (USSR)

ABSTRACT:

When the rotation furnaces of the Yamskiy Kombinat were taken into operation chromel-alumel thermocouples were mounted. The thermo-electromotive force was transmitted by trolley wires and brushes which proved to be unfit (Fig 1). Due to bad contact between trolley wire and brush the accuracy of temperature measurements was influenced and the wear and tear of the potentiometer increased. In the workshop KIP of the Kombinat brushes were designed and produced which operate satisfactorily (Fig 2). The total view of the installation is presented in figure 3 and then discussed. The copper terminals were replaced by steel terminals which decreased the wear and tear of the trolley wires. After installation of the new brushes the potentiometer EP-120 gr. PP was used and later the potentiometer EPP-09 gr. KhA Point Nr 2. The new brush is simple in handling and needs to be cleaned and lubricated only once a month. There are 4 figures.

Card 1/2

ZAYTSEV, V.V.; BORISOV, V.A.

[Long-range plan for collective farms] Perspektivnyi plan
kolkhoza. Moskva, Gos.planizdat, 1959. 222 p. (MIRA 13:5)
(Collective farms)

AKININ, P. I., inzh.; BUGAYEV, A. B., inzh.; GAZIN, V. V., inzh.;
GINDIS, Ya. P., inzh.; ZAYTSEV, V. V., inzh.; KARPENKO, V. M.,
inzh.

Automatic control of ladle turning. Mekh.i avtom.proizv.18
no. 5:14-16 My '64. (MIRA 17:5)

CHAMIN, I.A., inzh.; TOKAR', I.K., inzh.; ZAYTSEV, V.V., inzh.

Cold rolling of sheet steel with use of surface active metal-
working lubricants. Sbor. trud. TSNIICHM no.28:7-23 '62. (MIRA 15:11)

(Rolling (Metalwork)) (Metalworking lubricants)

ZAYTSEV, V.T., inzh.

Reconditioning the coke oven battery at the Lipetsk Metallurgical
Plant. Prom.stroi. no.10:31-35 '62. (MIRA 15:12)
(Lipetsk—Coke ovens—Maintenance and repair)

ZAYTSEV, V. T.

35249. Zhelezobetonnye Konstruktsii v Stroitel'stve Koksokhimicheskikh
Zabodov. Trudy IV Vsesoyuz . Konf-Tsii Po Betonou i Zhelezobeton.
Konstruktsiyam. Ch. I. M. S.L., 1949, S. 74-80

SO: Letopis'Zhurnal'nykh Statey Vol 34, Maskva, 1949

AUTHOR: Zaytsev, V.T. (Giprokoks).

148

TITLE: Some new designs of open air coal stock yards. (Novyye stroitel'nyye konstruksii otkrytykh ugol'nykh skladov.)

PERIODICAL: "Koks i Khimiya" (Coke and Chemistry),
1957, No. 2, pp. 52 - 55, (U.S.S.R.)

ABSTRACT: A revision of old designs of coal stock yards in order to incorporate more prefabricated concrete parts is outlined. There are 7 diagrams.

ZAYTSEV, V.T., inzh.; KOSTOGLODOV, V.V., inzh.

Changing the ground water conditions at industrial sites.
Prom. stroi. 40 no.5:9-13 '62. (MIRA 15:5)
(Coke ovens)
(Water, Underground)

L 45934-66

ACC NR: AR6023270

substrate, were investigated. The results are compared with the absorption of the gases in the region of the vacuum ultraviolet. [Translation of abstract]

SUB CODE: 20

Card 2/2 blg

L 45934-66 EWT(m)/EWP(j) RM

ACC NR: AR6023270

SOURCE CODE: UR/0058/66/000/003/D058/D058

AUTHOR: Fugol', I. Ya.; Khrushch, B. I.; Zaytsev, V. S.

TITLE: Procedure for spectral investigations of condensed gases in the region of the vacuum ultraviolet at low temperatures (77K)

SOURCE: Ref zh. Fizika, Abs. 3D489

REF. SOURCE: Tr. Komis. po spektroskopii. AN SSSR, t. 3, vyp. 1, 1964, 384-392

TOPIC TAGS: uv spectrum, absorption spectrum, gas discharge spectroscopy, low temperature research, methane, xenon

ABSTRACT: A high resolution procedure is developed for the investigation of the spectra of frozen gases. Powerful pulsed sources of the continuous spectrum have been developed, of the Lyman discharge type, and also sources of intense line spectra, namely a condensed spark discharge or a gliding spark. A special cryostat was constructed for low-temperature measurement in a vacuum spectrograph. In the 2,000 -- 1200 Å region at 77 K, the spectra of thin films of methane and xenon, deposited on a

Card 1/2

AUTHOR: Zaytsev, V.S., Technician

91-58-8-31/34

TITLE: Laying Flexible Cords (O shnurovoy provodke)

PERIODICAL: Energetik, 1958, Nr 8, pp 36 (USSR)

ABSTRACT: The author concludes that the practice of stringing unenclosed flexible cords on rollers in blocks of flats and factories should be forbidden. The action of paint, lime and vitriol on them causes deterioration of the insulation and the possibility that the cord, overheating, will set fire to the surrounding media. The author recommends the use of cable enclosed in light metal tubing.

1. Electric cables--Safety measures
2. Cable supports

Card 1/1

ZAYTSEV, V.S., teknik.

Cord wiring. Energetik 6 no.8:36 Ag '58.
(Electric wiring)

(MIRA 11:10)

ZAYTSEV, V.S.

Protection sleeve made of flat armor strip. Energetik 8
no.2:22-23 F '60. (MIRA 13:6)
(Electric cables)

MAITSEV, V.S.

Electric tank for heating cable insulation compounds. Energetik 2
no.10:21-22 0 '54. (MIRA 7:10)
(Electric heating)

ZAYTSEV, Vasily Stepanovich; SINYAKOV, Yu.I., red.; LEVONEVSKAYA,
L.G., tekhn.red.

[On the initiative of Valentina Gaganova] Po pochimu Valentiny
Gaganovoi. Leningrad, Lenizdat, 1959. 27 p. (MIRA 13:4)
(Textile industry)

ZAYTSEV, Vladimir Semenovich; TIMOFEYEVSKIY, Aleksandr Antonovich;
NOVIKOV, Petr Grigor'yevich; DAVYDOVA, Yu.F., red.;
KUDRYAVTSEVA, O.V., tekhn. red.

[The second phase; the CPSU in the struggle for the building of socialism] Na vtorom etape; KPSS v bor'be za postroenie sotsializma. Moskva, Izd-vo "Znanie," 1963. 72 p. (Novoe v zhizni, nauke, tekhnike. I Seriya, no.15-16) (MIRA 16:11)
(Communist Party of the Soviet Union)
(Russia--Economic conditions)

GROMOVA, A.A.; BELENKOVA, Ye.G., starsaya svinarka; ZAYTSEV, V.S., red.;
TIKHOMOVA, I.M., tekhn.red.

[You gave your word; keep it!] Dal slovo - sderzhi! Leningrad,
Lenizdat, 1959. 84 p. (MIRA 13:4)

1. Sekretar' partiynoy organizatsii kolkhoza "Pervoye maya" Gatchinskogo rayona, delegat XII s"yezda KPSS (for Gromova). 2. Agitator kolkhoza imeni XII parts"yezda Vsevolozhskogo rayona (for Belenkova).

(Agriculture)

ZAYTSEV, V.S., kand. sel'skokhozyaystvennykh nauk

Increasing the depth of plow layers. Zerkhdelie 26 no.9:34-37
S '64. (MIRA 17:11)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy institut
khitopkovodstva.

ZAYTSEV, V.S.

Unit for the dehydration of capillary-porous materials. Biol.
tekh.-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekh.
inform. 18 no.2:23-24 P '65. (MIRA 18:5)

ILLEGIBLE

Zaytsev, V. S.

AID P - 881

Subject : USSR/Electricity

Card 1/1 Pub. 29 - 14/23

Author : Zaytsev, V. S.

Title : Electric tank for heating the insulating compound for
oil-filled cables

Periodical : Energetik, 10, 21-22, 0 1954

Abstract : The author briefly describes and gives a detailed
drawing of the tank.

Institution : Not given

Submitted : No date

KARIMOV, Kh.; KUZ'MIN, V.; OL'SHANSKIY, V.; ZAYTSEV, V.S., red.;
SMIRNOV, P.S., tekhn.red.

[For the good of the Soviet people] Na blago sovetaskikh
liudei. Leningrad, Lenizdat, 1959. 113 p. (MIRA 13:4)

1. Konsul'tanty Doma politicheskogo prosveshcheniya LK i LGK
(for Karimov, Kuz'min, Ol'shanskiy).
(Leningrad--Economic conditions)

POLES'YEV, Semen Borisovich; ZAYTSEV, V.S., red.; POL'SKAYA, R.G., tekhn.red.

[The sons continue their fathers' work] Synov'ia prodolzhaet
delo ottsov. Leningrad, Lenizdat, 1960. 98 p.

(Leningrad--Labor and laboring classes)

(MIRA 13:11)

TITSKIY, Nikolay Pavlovich; ZAYTSEV, V.S., red.; PRESNOVA, V.A.,
tekhn. red.

[Green light for advanced practice] Peradovomu - zelenuiu
ulitsu. Leningrad, Lenizdat, 1962. 58 p. (MIRA 16:10)

1. Sekretar' partiynogo byuro motor-vagonnogo depo Leningrad-
Finlyandskiy (for Titskiy).
(Leningrad--Railroads--Employees)

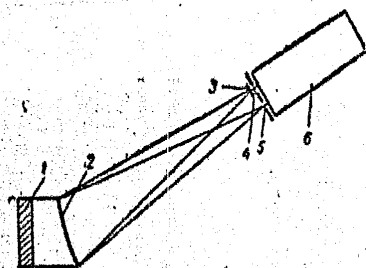
BELIKOV, Nikolay Mikhaylovich; ZAYTSEV, V.S., red.; TIKHONOVA, I.M.,
tekhn. red.

[Man's glory is his work] Chelovek slaven trudom. Leningrad,
Lenizdat, 1961. 56 p. (MIRA 15:2)

1. Sekretar' partiynoy organizatsii ordena Lenina zavoda
"Krasnyy vyborzhets" (for Belikov).
(Leningrad--Socialist competition)

ACCESSION NR: AP4004088

ENCLOSURE: 01



- 1 - specimen-emitter
- 2 - crystal-analyzer
- 3 - shutter
- 4 and 5 - slits
- 6 - scintillation counter

Card 3/3

ACCESSION NR: AP4004088

2. The automatic X-ray spectrometer described in paragraph 1 has the special feature that, for the purpose of reducing the possible errors owing to the instability of the employed electronic junctions, high voltage source, etc., two slits with a shutter and a mechanism for alternate switching of the slits and counting channels are mounted in front of the counter.

3. The automatic X-ray spectrometer described in paragraphs 1 and 2 has the special feature that, for the purpose of realizing an automatic sequence of operation during the analysis of an actual composition of mineral ores and their conversion products in a series of tests without the participation of an analyzer, it contains a control unit which provides for sequential operation from changing of the emitter to recording of the intensity of the analyzed element. [Abstractors note: this is a complete translation of the original article.]
Orig art. has: 1 figure.

ASSOCIATION: none

SUBMITTED: 01Oct62

DATE ACQ: 13Dec63

ENCL: 01

SUB CODE: AS
Card 2/3

NO REF SOV: 000

OTHER: 000

USSR

ACCESSION NR: AP4004088

S/0286/63/000/020/0050/0050

AUTHOR: Bykov, V. P.; Sorokin, I. V.; Avdonin, A. S.; Zaytsev, V. S.

TITLE: Automatic X-ray spectrometer for analytical purposes. Class 42,
no. 158109

SOURCE: Byul. izobret. i tovarn. znakov, no. 20, 1963, 50

TOPIC TAGS: scintillation counter, electron node instability, high voltage source, alternative switching, automatic sequence operation, mineral ore analysis, ore product, spectrometry, radiometer, spectrum analyzer, automatic x-ray spectrometer, x ray tube, crystalline analyzer

ABSTRACT: 1. Automatic X-ray spectrometer for analytical purposes, containing X-ray tube with feed source, curved crystal-analyzer and scintillation counter with radiometric equipment, has the special feature that, for the purpose of automatic change of specimens from the initially inserted series, it is equipped with a ring mount with several sockets, with a drive mechanism and contact group, providing for the change of the specimen - emitter with preservation of its exact position with respect to the crystal-analyzer.

Card 1/3

ACCESSION NR: AP4018400

Cd line is twice as intense as the 4358 Å Hg line; with a 10-amp current, both lines equalize in intensity. Orig. art. has: 2 figures.

ASSOCIATION: Fizicheskly institut im. P. N. Lebedeva AN SSSR (Institute of Physics, AN SSSR)

SUBMITTED: 06Apr63

DATE ACQ: 18Mar64

ENCL: 01

SUB CODE: PH

NO REF SOV: 002

OTHER: 002

Cord 2/1

ACCESSION NR: AP4018400

S/0120/64/000/001/0221/0222

AUTHOR: Zaytsev, V. P.; Starunov, V. S.; Fabelinskly, I. L.

TITLE: High-intensity cadmium gas-discharge lamp

SOURCE: Pribery* i tekhnika eksperimenta, no. 1, 1964, 221-222

TOPIC TAGS: high intensity lamp, cadmium vapor lamp, mercury vapor lamp, cadmium spectral line, mercury spectral line

ABSTRACT: As "isotopic light sources have been very expensive and lasers with a very narrow radiation line may become available only in the future," a low-pressure cadmium-vapor lamp has been designed whose luminous intensity is as high as that of a mercury-vapor lamp. The air between the double-walled central part 4 (see Enclosure 1) is exhausted down to 10^{-6} torr. About 6 torr of Ne and about 5% of Bi is added to the lamp atmosphere. With a discharge current of 5 amp in both the cadmium and mercury lamps, the $6435\text{\AA}$

Card 1/12

ACC NR: AP6022037

The various components of the equipment shown are as follows: 1 and 2) part of the spherical hinge, 3) a flange for clamping a mirror or a plate, 4) set screw, 5) metallic washer for the set screw, 6) a soft gasket, 7) the gas laser tube, 8) a support. The instrument allows fast and accurate adjusting of the gas laser and can orient the electric field vector of the radiated light waves in any desired manner. The author thanks I. L. Fabelinskiy for his influence on this work. Orig. art. has: 2 figures.

SUB CODE: 14, 20/ SUBM DATE: 25May65

Card 2/2

ACC NR: AP6022037

SOURCE CODE: UR/0120/66/000/003/0214/0215

AUTHOR: Zaytsev, V. P.

ORG: Institute of physics, AN SSSR, Moscow (Fizicheskiy institut)

TITLE: Spherical hinge for adjusting and clamping mirrors and windows of a gas laser

SOURCE: Priory i tekhnika eksperimenta, no. 3, 1966, 214-215

TOPIC TAGS: laboratory equipment, laboratory optic instrument

ABSTRACT: A spherical hinge for clamping a mirror or a flat plate placed at a Brewster angle is described. A cross section of the equipment is shown in Fig. 1.

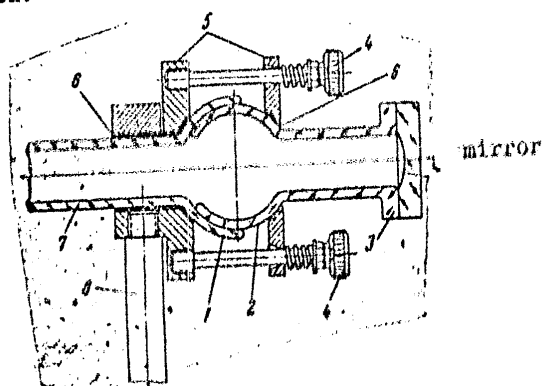


Fig. 1.

UDC: 621.378.325

ZAYTSEV, V.P., inzh.

Hinged lever suspension of decks in universal roller-deck mills.
Soob. i ref. VNIIZ no.4:35-36 '61. (MIRA 16:5)

1. Konstruktorskoye byuro Vsesoyuznogo nauchno-issledovatel'skogo
instituta zerna i produktov yego pererabotki.
(Grain milling machinery)

KOVALEVA, M.F., kand.ekonom.nauk, red.; KARAVAYEV, A.A., kand.ekonom.nauk, red.; TUSHUNOV, A.V., kand.ekonom.nauk, red.; ZAYTSEV, V.P., red.; NAUMOV, K.M., tekhn.red.

[Socialist agriculture at the present-day stage and problems of agrarian theory] Sotsialisticheskoe sel'skoe khoziaistvo na sovremennom etape i voprosy agrarnoi teorii. Moskva, Izd-vo VPSH i AON pri TsK KPSS, 1960. 477 p. (MIRA 13:9)

1. Moscow. Akademiya obshchestvennykh nauk.
(Agriculture)

KOVALEVA, M.F., kand.ekon.nauk, glavnyy red.; KARAVAYEV, A.A., kand.
ekon.nauk, red.; AFANAS'YEV, V.S., kand.ekon.nauk, red.;
ZAYTSEV, V.P., red.; NAUMOV, K.M., tekhn.red.

[Problems in political economy] Voprosy politicheskoi ekonomii.
Moskva, Izd-vo VPSH i AON pri TsK KPSS, 1959. 190 p.

(MIRA 12:7)

1. Moscow. Akademiya obshchestvennykh nauk. Kafedra politicheskoy ekonomii.

(Economics)

BORODIN, Ivan Andreyevich, prof., doktor ekonom.nauk; ZAYTSEV, V.P., red.;
RUBTSOV, A.N., red.; BERLOV, A.P., tekhn.red.

[Development of grain economy in virgin land regions] Razvitie
zernovogo khoziaistva raionov tseliny. Moskva, izd-vo "Znanie,"
1958. 63 p. (Vsesoiuznoe obshchestvo po rasprostraneniю poli-
ticheskikh i nauchnykh znaniy. Ser.3, nos.36/37) (MIRA 12:8)
(Grain) (Reclamation of land)

MARINKO, Ivan Leont'yevich, kandidat ekonomicheskikh nauk; ZAYTSHV, V.P.,
redaktor; ATROSHCHENKO, L.Ye., tekhnicheskiiy redaktor

[State farms and their role in effecting a sharp raise in agriculture]
Sovkhozy i ikh rol' v osushchestvlenii krutogo pod'ema sel'skogo
khoziaistva. Moskva, Izd-vo "Znanie," 1956. 31 p. (Vsesoiuznoe obshche-
stvo po rasprostraneniuiu politicheskikh i nauchnykh znani. Ser. 3,
Ekonomika sel'skogo khoziaistva. Vyp. 2, no.10) (MIRA 9:12)
(State farms)

ZAYTSEV, V.P.

Underwater fishery research in the U.S.S.R. Okeanologia 2
no.6:961-969 '62. (MIRA 17:2)

ZAYTSEV, V.P.; STARUNOV, V.S.; FABELINSKIY, I.L.

High-intensity cadmium gas-discharge tube. Prib. i tekhn. eksp.
9 no.1:221-222 Ja-F '64. (MIRA 17:4)

1. Fizicheskii institut AN SSSR.

DIOMIDOV, Mikhail Nikolayevich; DMITRIYEV, Aleksandr Nikolayevich.
Prinimal uchastiye ZAYDEL', G.A., inzh.; ZAYTSEV, V.F.,
kand. tekhn.nauk, retsenzent; OSOKIN, S.D., kapitan 2 ranga
retsenzent; ZENKEVICH, L.A., red.; KAZAROV, Yu.S., red.

[Conquest of the depths] Pokorenie glubin. Izd.2., 4apr. 1
perer. Leningrad, Sudostroenie, 1964. 383 p.
(MIRA 18:3)

1. Chlen-korrespondent AN SSSR (for Zenkevich).

ZAYTSEV, V.P.

Using waste punched cards as cards with perforated borders. NTI
no.1:37-38 '65. (MIRA 18:6)

1. Nachal'nik' otдела 'sobratatel'stva i tekhnicheskoy informatsii
Dal'nevostochnogo pu'ckhodstva, Vladivostok.

L 23134-66

ACC NR: AP6006671

amount of information supplied by this method proved to be much greater than that of previous methods (particularly A1). A defect of the method is the great time-consuming task of handling the experimental records. It is suggested that in the future the amplitudes of reflections at different signal frequencies be averaged by accumulation on the photographic prints. That is, allow all 60 exposures of the selected images to be made on a single frame. Orig. art. has: 1 table.

SUB CODE: 04/ SUBM DATE: 10Jun65/ ORIG REF: 003/ OTH REF: 001

Card 2/2 PB

L 23134-66 EWT(1)/FGC/EWA(h) GW

ACC NR: AP6006671

SOURCE CODE: UR/0203/66/006/001/0149/0150

AUTHORS: Zelenkova, I. A.; Zelenkov, V. Ye.; Zaytsev, V. P.

ORG: Ionosphere Sector, AN KazakhSSR (Sektor ionosfery AN KazakhSSR)

TITLE: Measurements of absorption in the ionosphere by the A5 method. Apparatus.
First results

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 1, 1966, 149-150

TOPIC TAGS: ionospheric absorption, radio wave, photograph/ ~~Sp-3~~ ³⁰

ABSTRACT: This is a report on the use of the A5 method (as proposed at the Ionosphere Conference at Nice, December 11-12, 1961) in measuring absorption of radio waves in the ionosphere. This technique involves vertical sounding with continuously varying frequency. Measurements were made at standard ionosphere-scanning stations with the vertical Sp-3 sonde. This instrument permits measurements in the frequency range from 0.5 to 20.0 megahertz with a sounding frequency of 30 hertz, duration of sounding pulse of 100 microseconds, and a power of 20 kv in the pulse. Amplitude-height-frequency characteristics were obtained. The

Card 1/2

UDC: 550.388.2 2

ZAYTSEV, V. P.

"Refrigerating equipment in the U.S.S.R. high-seas fisheries."

Report presented at the 11th International Congress of Refrigeration,
(IIR), Munich, West Germany, 27 Aug-4 Sep 63.

ZAYTSEV, Vikentiy Petrovich, kand. tekhn. nauk, dots.; NITOKHIN,
Aleksandr Yefimovich, inzh.; POPYRIN, Ivan Andreyevich,
inzh.; SURVILLO, Vladimir Lyudvigovich, doktor tekhn. nauk,
prof.[deceased]; KAN, A.V., inzh., retsenzent; TEREENT'YEV,
G.B., kand. tekhn. nauk, retsenzent; KAZAROV, Yu.S., red.;
YUDINTSEV, A.F., red.; CHISTYAKOVA, R.K., tekhn. red.;
SHISHKOVA, L.M., tekhn. red.

[Refrigerator ships] Refrizheratornye suda. [Ry] V.P.Zaitsev i
dr. Leningrad, Sudpromgiz, 1963. 523 p. (MIRA 16:6)
(Refrigerator ships)

ZAYTSEV, Vikentiy Petrovich, dots.; RYUTOV, D.G., kand. tekhn. nauk,
spets. red.; MOROZOVA, I.I., red.; KISINA, Ye.I., tekhn. red.

[Refrigeration and preservation of fish products] Kholodil'noe
konservirovanie rybnykh produktov. 2. izd., perer. i dop. Mo-
skva, Pishchepromizdat, 1962. 427 p. (MIRA 15:6)
(Fishery products--Preservation)

ZAYTSEV, Vikentiy Petrovich, kand. tekhn. nauk; ZHADAN, V.Z., kand.
tekhn. nauk, retsenzent; KAN, A.V., inzh., retsenzent;
MASLOVA, Ye.F., red.; EL'KINA, E.M., tekhn. red.

[Refrigeration engineering]Kholodil'naya tekhnika. Lenin-
grad, Gos.izd-vo tog. lit-ry, 1962. 343 p. (MIRA 15:10)
(Refrigeration and refrigerating machinery)

ZAYTSEV, V.P.

Maritime fishery research from the "Persei" to the "Severianka,"
Okeanologia 1 no.3:369-374 '61. (MIRA 16:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo
rybnogo khozyaystva i okeanografii.

PAVLOVSKIY, Ye.N., akademik; ZAYTSEV, V.P.; NIKOL'SKIY, G.V.; CHEREPIS, B.I.

Tasks in the field of fishery biology in connection with the seven-year plan for fishery development. Zool.shur. 38 no.6:80;-811 Je '59.
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1. Ichtiological Commission of the Academy of Sciences of the U.S.S.R., Moscow.

(Fisheries--Research)

Card 1/9

Reports (Cont.)

90V/3747

... and technique of rapid cooling and freezing of meat and fish, the use of antibiotics in the cold storage of food, and the operation of refrigerators and cooling systems. A complete account of the proceedings of this meeting was published by the International Institute of Refrigeration in 1959. No personalities are mentioned. References follow several of the articles.

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Zaytsev, V. P. [Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii (All-Union Scientific Research Institute of Sea Fisheries and Oceanography)], and Ye. G. Pavlov [Otdel rybnoy promyshlennosti Gosplana SSSR (Department of the Fishing Industry, Gosplan USSR)]. Fish Freezing on Seagoing Ships in the USSR 32

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red.; FORMALINA, Ye.A., tekhn.red.

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1959. 53 p. (MIRA 13:9)

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ZAYTSEV, V. P.

(Institute of Marine Fisheries and Oceanography of the USSR) and Pavlov, E. G.
(Dept. of Fisheries of the State Planning Commission of the USSR): "Fish Freezing on
Board Ships in the USSR" /English - 6 pages/

report presented at the International Inst. of Refrigeration (IIR), Annual
Meetings of Commissions 3,4, and 5, Moscow, 3-6 Sep 1958.

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"Preparation of Dynamic Charts for Seas with Complex Pattern of Tidal Circulation (featuring the Norwegian Sea)."

paper presented at the Meeting of the International Council for Exploration of the Sea, Annual Meeting, Bergen, Norway, 30 Sep - 8 Oct 57. Presented to Hydrographical Committee.

~~ZAYTSEV, Viktor Patrovich~~; NITCOCHKIN, Aleksandr Yefimovich; SURVILLO,
Vladimir Lyudvigovich; KAPLANSKIY, Ye.F., redaktor; KAMOLOVA, V.M.,
tekhnicheskii redaktor

[Fish refrigeration ships] Rybopromyshlennyye refrizheratornyye sudia.
Pod red. V.L.Survillo. Leningrad, Gos.soiuz.izd-vo sudostroito.
promyshl. 1957. 318 p. (MIRA 10:6)
(Refrigeration on ships)

ZAYTSEV, Vikentiy Petrovich; MIKHAYLOV, G.V., retsentsent; PAKHOMOV, A.I.
retsentsent; PISKAREV, A.I., spetsredaktor; MOROZOVA, I.I., redaktor;
CHEBYSHEVA, Ye.A., tekhnicheskiiy redaktor

[Refrigeration of fishery products] Kholodil'noe konservirovanie
rybnnykh produktov. Moskva, Pishchepromizdat, 1956. 339 p. (MLRA 10:4)
(Fishery products--Preservation)
(Refrigeration and refrigerating machinery)

PAVLOV, Yevgeniy Grigor'yevich; IVANOV, V.M., inzhener, retsenzent; KHATUN-
TSEV, N.A., retsenzent; ZAYTSEV, V.P., kandidat tekhnicheskikh nauk,
spetsredaktor; MOROZOVA, I.I., redaktor; GOTLIB, E.M., tekhnicheskii
redaktor

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Sub 9 Jun 52, Moscow Technical Inst of Fish Industry and Economy imeni
A. I. Mikoyan (Dissertation for the Degree of Candidate in the Technical
Science)

SO: VECHERNAYA MOSKVA, JANUARY-DECEMBER 1952

BOYARINTSEVA, S.D.; ZAYTSEV, V.P.; KULIKOVA-LEBEDINSKAYA, Ye.I.

Changes in electroencephalograms and reactions of rhythm
adoption in mental patients with vascular diseases of the brain
under the effect of single small doses in the process of hexonium
therapy. Trudy 1-go MMI 34:494-501 '64. (MIRA 18:11)

1. Kafedra psikhiiatrii (zav. - zasluzhennyy deyatel' nauki
prof. V.M. Banshchikov) 1-go Moskovskogo ordena Lenina medi-
tsinskogo instituta imeni Sechenova.

46-4-2-5/20
Construction and Absolute Calibration of a Magneto-Electric Acoustic Generator
calibration curves were obtained (Fig 5). The authors thank
G.S. Landsberg for valuable advice. There are 5 figures and
4 Soviet references.

ASSOCIATION: Fizicheskii Institut imeni P.N. Lebedeva, AN SSSR, Moskva
(Physics Institute imeni P.N. Lebedev, Academy of Sciences
of the USSR, Moscow)

SUBMITTED: March 20, 1957

Card 3/3

1. Generators—Calibration
2. Calibration—Test methods
3. Calibration—Test results

46-4-2-5/20

Construction and Absolute Calibration of a Magneto-Electric Acoustic Generator

the piston. A small mirror 5 is attached to the top of the aluminium rod. Particular attention was paid to effective sealing between the piston and the walls (see Fig 2). The natural frequency of the generator was 185 c/s but the receiver was used at 50 c/s. The construction used was found to produce a sinusoidal change of pressure in the vessel 4 when a sinusoidal current was passed through the coil. The piston **displacement** was found to be proportional to the current in the coil. This makes it possible, after suitable calibration, to find the pressure amplitude in the vessel from the value of the current in the coil. A short theory of the generator is given. Its calibration was carried out as follows. The piston displacement was measured very accurately by using the mirror 5 of Fig 1 as one of the mirrors of a Michelson interferometer (Fig 3). The piston displacement was varied by passing a known d.c. or a.c. current through the energizing coil 2. From the proportionality of the current and piston displacement the

Card 2/3

46-4-2-5/20

AUTHORS: Zaytsev, V.P., Motulevich, G.P. and Fabelinskiy, I.L.

TITLE: Construction and Absolute Calibration of a Magneto-Electric Acoustic Generator (Konstruktsiya i absolyutnaya graduirovka magnito-elektricheskogo akusticheskogo izluchatelya)

PERIODICAL: Akusticheskiy Zhurnal, 1958, Vol IV, Nr 2, pp 137-142 (USSR)

ABSTRACT: The present paper describes a generator which works inside a closed space ~~whose~~ dimensions are small compared with the acoustic wavelength and the method of absolute calibration of this generator is given. Errors in this calibration do not exceed 1-2%. The generator is shown in Fig 1. Change of pressure in the vessel 4 filled with liquid is produced by a piston 1 which is rigidly connected with an induction coil 2 which is placed in the radial field of a permanent magnet 3. The vessel 4 has two plane-parallel windows 7. To observe motion of the piston and to measure its displacement, an aperture was made through the centre of the magnet. Through this aperture, without touching the magnet, an aluminium rod passes, ~~the rod is~~ rigidly fixed to

Card 1/3

ABLEKOV, V.K.; ZAYTSEV, V.P.; PESIN, M.S.

High-intensity mercury-zinc and mercury-cadmium lamps. Prib. i
tekh. eksp. 6 no.2:140-142 Mr-Ap '61. (MIRA 14:9)

1. Fizicheskiy institut AN SSSR.
(Electric discharge lighting)

ZAYTSEV, Valentin Pavlovich; SHESTOVA, L.M., red.; NAUMOV, K.M.,
~~tekhn. red.~~

[The strike movement in Great Britain at the present-day
stage] Zabastovochnoe dvizhenie v Anglii na sovremennom
etape. Moskva, Izd-vo VPSH i AON pri TsK KPSS, 1963. 85 p.
(MIRA 16:9)

(Great Britain--Strikes and lockouts)

ZAYTSEV, V. P.; NIKULIN, A. A.; POLYAKOVA, N. B.; SUSNINA, I. V.;
TROSHINA, A. Ye.; UZBEKOVA, D. G.; USPENSKIY, V. A.

Proper utilization of medicaments is one of the basic conditions
for the further improvement of medical attendance for the popula-
tion. Zdrav. Ros. Feder. 6 no.8:13-17 Ag '62.

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1. Iz Ryazanskogo oblastnogo aptekoupravleniya (upravlyayushchiy
V. P. Zaytsev) i kafedry farmakologii (zav. - dotsent A. A.
Nikul'in) Ryazanskogo meditsinskogo instituta imeni akademika
I. P. Pavlova.

(DRUGS) (MEDICAL CARE)

ZAITEV, V.P. [Zaytsev, V.P.]

Submarine studies of the pisciculture economy in the U.S.S.R.
Analele biol 17 no.3:64-73 My-Je '63.

EELYAYEV, V.A., inzh.; ZAYTSEV, V.P., inzh.

Contribution by efficiency promoters and the improvement of the
operation of "Andizhan"-type ships. Biul. tekhn.-ekon. inform.
Tekh. upr. Min. mor. flota 7 no.8:3-16 '62. (MIRA 16:5)

1. Dal'nevostochnoye parokhodstvo.
(Motorships--Technological innovations)

ZAYTSEV, Vasilii Prokop'yevich; SAL'NICHENKO, M.A., red.; NAZAROVSKIY, E.N., red. izd-va; SUKMANOVA, K.G., tekhn. red.

[Relying on advanced practices] Opora na peredovoi opyt. Perm', Permskoe knizhnoe izd-vo, 1960. 20 p. (MIRA 14:11)

1. Pervyy sekretar' Bol'she-Sosnovskogo rayonnogo komiteta Kommunisticheskoy partii Sovetskogo Soyuza (for Zaytsev). 2. Metodist Doma politicheskogo prosveshcheniya pri Permskom oblastnom komitete Kommunisticheskoy partii Sovetskogo Soyuza (for Sal'nichenko).

(Stock and stockbreeding)

AM4007943

problems in the construction of airplanes, rockets, and helicopters are examined. The pneumatic and hydraulic aircraft systems as well as hydraulic servos are described. Considerable attention is paid to the problems of aeroelasticity, service life, and aerodynamic heating. The factual and numerical data and the schematic diagrams of aircraft are taken from non-Soviet sources. The authors thank K. A. Lyushinsky for writing article 3 of Ch. 2 and N. M. Mitrofanov who participated in selection of material for some chapters. Special appreciation is expressed to A. M. Okulov for illustrating the book and to Doctors of Technical Sciences A. R. Bonin and Professor L. P. Ninokurov, and Candidates of Technical Sciences N. G. Savusya, L. A. Kolesnikov, A. A. Yarkho and V. P. Rusanov for their valuable suggestions during the review and revision of the manuscript.

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AM4007943

BOOK EXPLOITATION

S/

Bel'skiy, Vladimir Leonidovich; Vlasov, Ivan Petrovich; Zaytsev, Valentin Nikolayevich; Kan, Saveliy Nakhimovich (Doctor of Technical Sciences, Professor); Karnozhitskiy, Vladimir Pavlovich; Kots, Veniamin Markovich; Lipovskiy, David Yevseyevich

Aircraft design (Konstruktsiya letatel'nykh apparatov) Moscow, Oborongiz, 1963. 708 p. illus., biblio. Errata slip inserted. 6200 copies printed.

TOPIC TAGS: aircraft construction, aircraft strength, aircraft design, aircraft rigidity, aircraft hydraulics, aircraft pneumatics, aircraft servo, aircraft service life, aeroelasticity, aerodynamic heating

PURPOSE AND COVERAGE: The book is intended for aeronautical engineers concerned with aircraft design and manufacture. It may also be useful to students of technical schools of higher education. The principles of aircraft construction and strength are discussed. The principles of arrangement are examined, and design methods for strength and rigidity are given. External design loads are analyzed, and other

Card 1/5

ZAYTSEV, V. N.

The author expressed his thanks for valuable help. Aircraft Strength: (Prochnost' samoleta)
by: Kan, S. N.

A.I.D., Library of Congress (Call No. TL 671.2.K33)

ZAYTSEV, V. N.

"Stressed Condition of Thin-Walled Cylindrical Structures." Sub 29 Jun 51, Military Aeronautical Engineering Academy imeni Prof N. Ye. Zhukovskiy

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

KHODYKO, A.D.; BERNSTEYN, Ya.A; ZAYTSEV, V.N.; KIL', I.G.

Additional data on the new French Aluminum Plant in Noger.

TSvet. met. 34 no.3:94-95 Mr '61.

(MIRA 14:3)

(France—Aluminum industry)

MOBACHEVSKIY, Yu.V.; ZAYTSEV, V.N.; TARANOV, A.P.

Coprecipitation of ~~gamma~~ quantities of iron and cobalt with calcium phosphate. Uch. zap. LGU no.297:85-89 '60. (MIRA 13:11)
(Iron) (Cobalt) (Calcium phosphate)

ZAYTSEV, V.N.

Selection of units and the composition of the building of the
Krasnoyarsk Hydroelectric Power Station. Tzody Iengidroproekta
no.1:21-38 '64.

(MIRA 18:10)

BURMISTROV, S.I.; ZAYTSEV, V.N.; DZYURA, Zh.G.

Alkylation of nitrophenols. Part 2: Alkylation of o-nitrophenol.
Zhur. org. khim. 1 no.6:1000-1003 Je '65. (MIRA 18:7)

1. Dnepropetrovskiy khimiko-tekhnologicheskly institut.

BURMISTROV, S.I.; ZAYTSEV, V.N.

Alkylation of amines. Part 8: Alkylation of p-aminoethylbenzene.
Zhur.org.khim. 1 no.3:502-505 Mr '65. (MIRA 18:4)

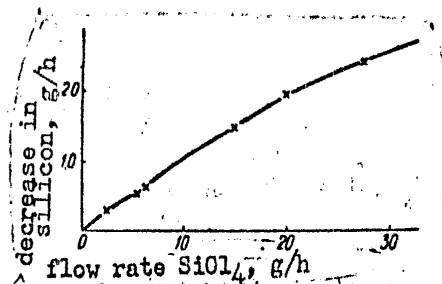
1. Dnepropetrovskiy khimiko-tehnologicheskii institut.

L 46039-66

ACC NR:

AT6022714

Fig. 2. Dependence of the amount of transported silicon on the rate of supply of SiCl_4 at 1250C.



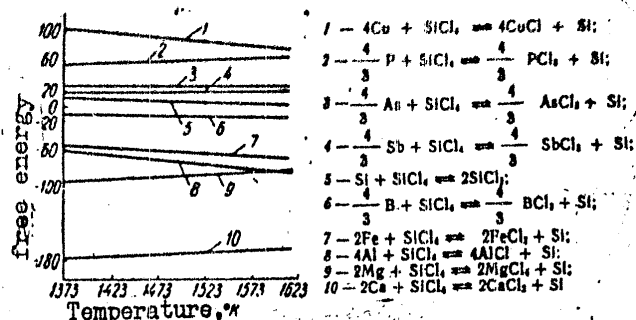
Orig. art. has: 1 table, 3 graphs, and 1 equation.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 001/ OTH REF: 005

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Fig. 1. Dependence of the free energy on the temperature for a number of reactions between SiCl_4 and different elements.



The above reaction was studied in vacuum over the temperature interval of 1150 to 1300°C at an average working pressure of SiCl_4 of 0.2--0.4 atm. A schematic of the experimental installation is presented, and the experimental results are presented graphically (see Fig. 2). It was found that the optimum conditions for the purification of silicon by the above method are: reaction temperature - 1280°C; rate of SiCl_4 flow - 20 g/hour; duration of process - 3 hours.